GENERAL NOTES

1. SUBJECT PROPERTY ZONED PGCC PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN. 2. THIS PROJECT IS SUBJECT TO THE THIRD AMENDED TURF VALLEY MULTI-USE SUBDISTRICT FINAL DEVELOPMENT PLAN RECORDED AS PLAT NUMBERS 21029-21031 ON MARCH 26, 2010.

3. PROJECT BOUNDARY IS BASED ON BOUNDARY SURVEY BY JOHN B. MILDENBERG IN MARCH, 2006. TOPOGRAPHY IS BASED ON AERIAL TOPOGRAPHIC SURVEY PERFORMED BY WINGS AERIAL MAPPING CO., INC. FLOWN ON OR ABOUT JANUARY, 2006.

4. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS, THEIR REQUIRED BUFFERS, 100-YR FLOODPLAIN OR 25% OR GREATER STEEP SLOPES WITH MORE THAN 20,000 SF OF CONTIGUOUS AREA EXCEPT THE DISTURBANCES THAT ARE ASSOCIATED WITH THE SEWER CROSSING WHICH WAS DEEMED "NECESSARY" BY THE DEPARTMENT OF PLANNING AND ZONING UNDER THIS ECP.

5. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES LOCATED ON THIS SITE.

6. THIS PROJECT IS EXEMPT FROM HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS UNDER SECTION 16.1202(b)(1)(iv) OF THE COUNTY CODE SINCE IT IS A PLANNED UNIT DEVELOPMENT WHICH HAD PRELIMINARY DEVELOPMENT PLAN APPROVAL AND 50% OR MORE OF THE LAND WAS RECORDED AND SUBSTANTIALLY DEVELOPED BEFORE DECEMBER 31, 1992

7. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION AND/OR SITE DEVELOPMENT PLAN.

8. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION AND/OR SITE DEVELOPMENT PLAN STAGES. THEREFORE, THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS (INCLUDING THOSE THAT MAY ALTER OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES.

9. THE STORMWATER MANAGEMENT PRACTICES SHOWN ON THIS PLAN ASSUME ADEQUATE SOIL BORING TEST RESULTS. THE DESIGN MAY NEED TO BE ADJUSTED AT THE NEXT STAGE AFTER SOIL BORING TESTING HAS BEEN COMPLETED AND AN ALTERNATE PRACTICE MAY NEED TO BE UTILIZED.

10. APPLICABLE DPZ FILE REFERENCES: F-02-082

11. THE SEDIMENT AND EROSION CONTROL SHOWN ON SHEETS 3 IS A SCHEMATIC PRELIMINARY DESIGN. A MORE DETAILED DESIGN COMPLETE WITH SEQUENCE OF CONSTRUCTION, NOTES AND DETAILS SHALL BE PROVIDED AT THE NEXT PLAN STAGE.

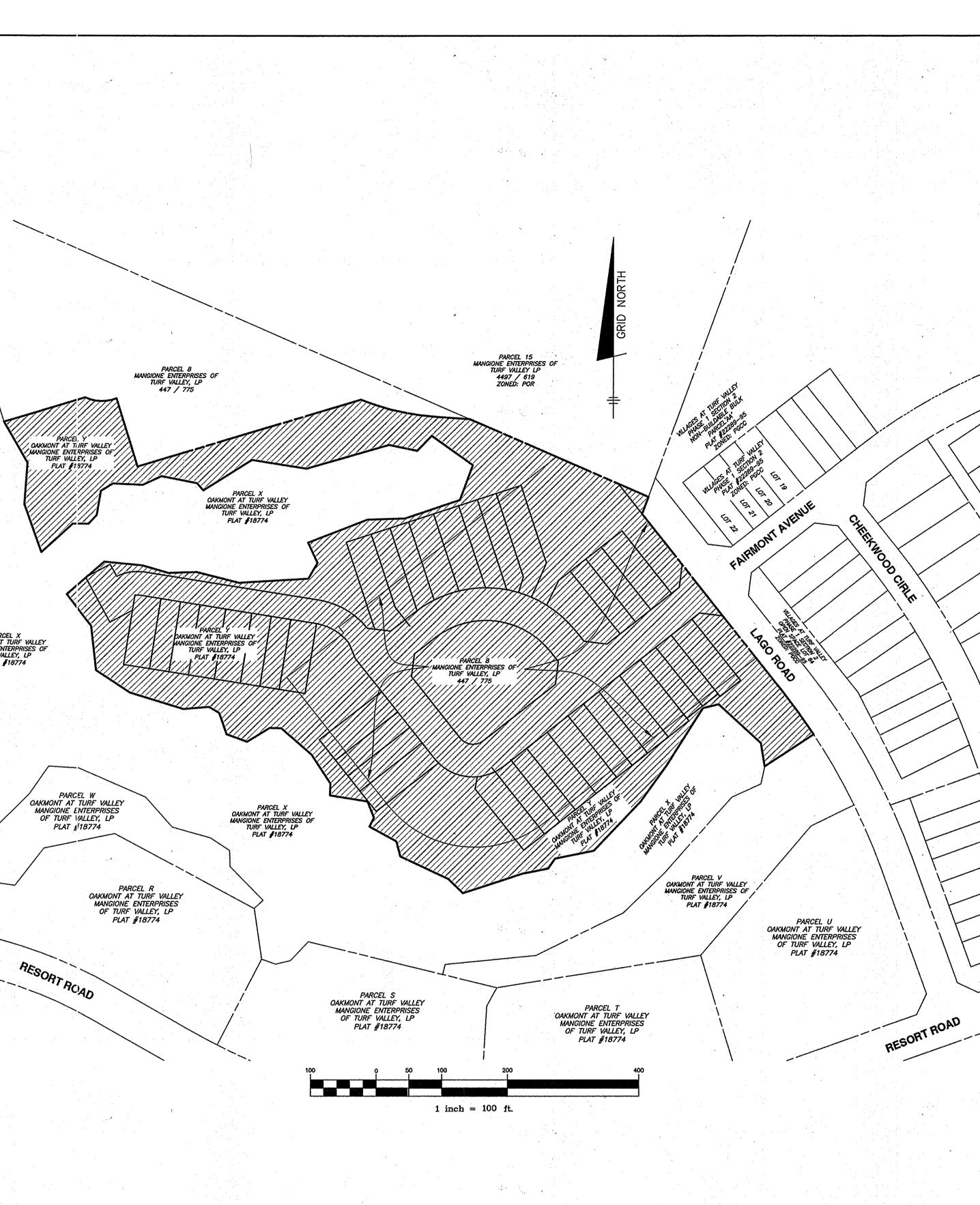
12. THIS SUBDIVISION IS SUBJECT TO THE PROVISIONS OF SECTION 16.129 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

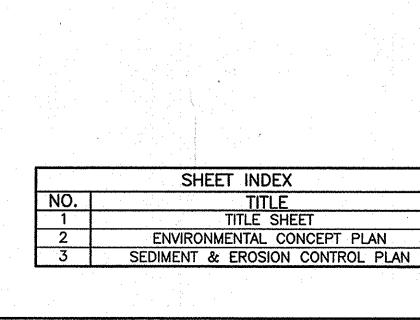
APPROVED:	HOWARD COUNTY	DEPARTMENT OF	PLANNING	AND ZONING
Plun	Elent		. 4	23.14
CHIEF, DEVE	LOPMENT ENGINEERING	DIVISION	8	DATE
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CHIEF, DIVISI	ON OF LAND DEVELOP	MENT	ETHH	DATE

P:\2601 Villages at Turf Valley Phase 5\dwg\ECP_V5.dwg, 3/31/2014 10:49:57 AM

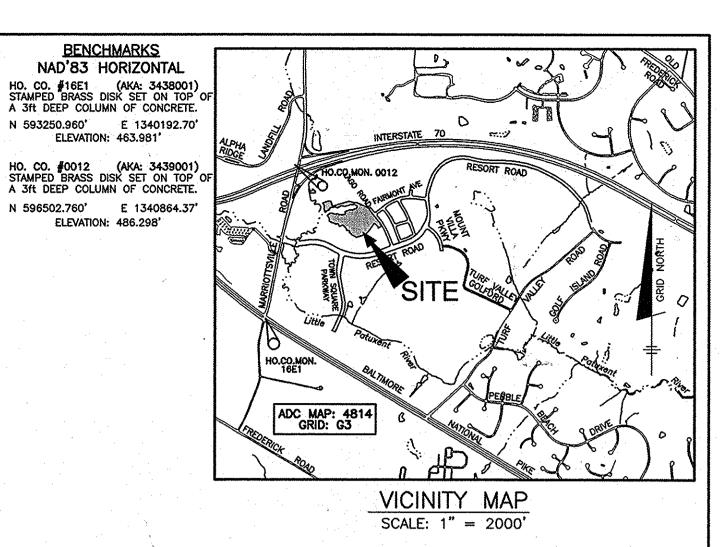
		È	SD STORM	WATER MA	NAGEMEN	IT SUMM	ARY TABL	Æ				
Pe=	1.6	inches	Qe=	0.66	inches	ESDv=	21302	Cf	Rv=	0.41		
Practice		DA to proofice	Imp Area to	Af (s.f.)		ESDv			REv			
		DA to practice	practice	Required	Provided	2% DA?	Required	Provided	Pe Provided	Required	Provided	Ownership
(M-6) MicroBioretenion	#1	16,431	9,110	329	992	PASS	1203	1611	1.6		ğ	Private
(M-6) MicroBioretenion	#2	14,890	9,944	298	1217	PASS	1293	1912	1.6		l m	Private
(M-6) MicroBioretenion	#3	19,267	12,391	385	1084	PASS	1615	1754	1.6		via 2.0' stone chambe v BIO #5 and #6	Private
(F-6) Bioretention	#1	26,094	16,600	522	1316	PASS	2166	2333	1.6			Private
(F-6) Bioretention	#2	26,574	13,821	531	1300	PASS	1836	2042	1.6	¥ 		Private
(F-6) Bioretention	#3	30,338	, 16,033	607	1500	PASS	2126	2379	1.6			Private
(F-6) Bioretention	#4	32,742	23,003	655	2000	PASS	2979	2956	1.6			Private
(F-6) Bioretention	#5	61,126	21,271	1223	2420	PASS	2960	3631	1.6			Private
(F-6) Bioretention	#6	29,324	16,725	586	1619	PASS	2202	2481	1.6		met v below	Private
4											L S D	
(N-3) SheetFlow To Cons Area	Lots 21-24	3,840	3,840					288	1.0		<u>></u>	Private
				A CONTRACTOR OF THE		he des conde		tin da ta			Ц Ш Ш	
Total Treated	\longrightarrow	260,626	142,738	5,136	13,448		21,302	21,386	1.6	2614	3231	
Site Total	>	389,667	142,738		• · · · · · · · · · · · · · · · · · · ·			*				
				89 m 1997 - 790 m 1997 - 790 m 1997 - Thank an Anna an Anna an Anna an Anna Anna	an a	nan daharan di kasi nchushi kasi nasi dati na daharinta	fransk dalen Astronov for follofsselverna das vakada de de	fange men die eine der eine der die einer der die der die der die der der die einer der die die der die die der Geschlichten die der die die der die die der die die die Geschlichten die		lan sond and contract of the source of the s		annan a' suite airseachadh aite aiteachadh an an sairean

PARCEL X OAKMONT AT TURF VALLEY MANGIONE ENTERPRISES OF TURF VALLEY, LP PLAT #18774





TITLE SHEET



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DESIGN NARRATIVE:

BENCHMARKS

ELEVATION: 463.981'

For the proposed impervious areas of the subdivision (M-6) Micro-Bioretention, (F-6 Bioretention and (N-3) Sheet flow to Conservation Area has been proposed for treatment.

Natural resource protection is being achieved as no environmental areas or buffers are being disturbed by this proposed design.

Natural flow patterns have been preserved by placing the ESD practices around the outer perimeter of the site and having them discharge along this perimeter in various locations as opposed to one concentrated area. This shall mimic the existing condition of flow.

Reduction of impervious areas has been achieved by utilizing the narrowest possible roadway, sidewalk and driveway widths as allowed by Howard County design regulations.

Sediment and erosion control shall mainly consist of double row of super silt fence around the perimeter. Clean water diversion dikes shall be utilized to divert runoff around the northeastern portion of the site. Temporary Sediment Traps may be required and if so will be placed in areas of the proposed MB practices.

The small impact for the proposed sewer crossing is needed in order to service the proposed lots. This disturbance is "offsite" on Parcel 'X' which is owned by the same entity as the project site. The disturbance for this sewer has been deemed 'necessary' by the Department of Planning and Zoning. Jack and Bore shall be utilized to minimize any disturbance.

As a result of utilizing environmental site design (ESD) to the maximum extent practical (MEP), SWM has been adequately addressed without the need for structural practices.

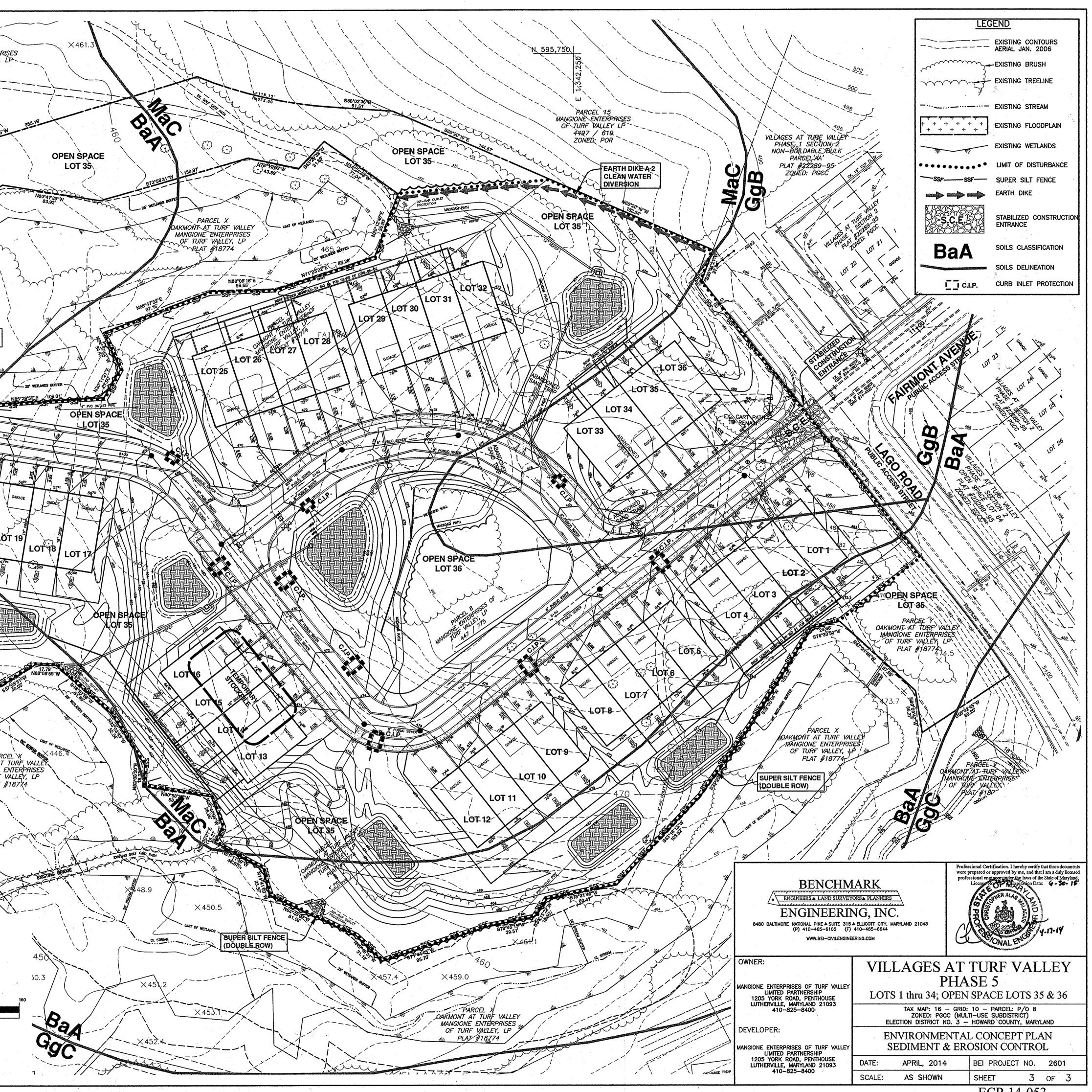
Site Analysis Data Sheet					
	<u>à</u>				
Gross Area	10.49	ac			
100yr Floodplain	0.00	ac			
Steep Slopes 15% or greater	0.27	ac			
Wetlands	0.00	ac			
Wetlands Buffer	0.00	ac			
Stream	0.00	ac			
Stream Buffer	0.00	ac			
Forested Area	2.89	ac			
Erodable Soils	0.00	ac			
Limit of Disturbance	8.94	ac			
Impervious Area	3.28	ac			
Green Space	5.66	ac			

	ENGINEERS & LAND SURVEY ENGINEERS & LAND SURVEY ENGINEERS & LAND SURVEY BARBO BALTIMORE NATIONAL PIKE & SUITE 315. (P) 410-465-6105 (F) WWW.BEI-CMLENCINE	ORSA PLANNERS NG, INC A ELLICOTT CITY, N 410-485-6644	2.	Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. I have been been been been been been been be				
•	OWNER: MANGIONE ENTERPRISES OF TURF VALLEY LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE		LAGES 2 P S 1 thru 34; 0	HA	SE 5			
	LUTHERVILLE, MARYLAND [,] 21093 410-825-8400	TAX MAP: 16 - GRID: 10 - PARCEL: P/O 8 ZONED: PGCC (MULTI-USE SUBDISTRICT) ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND						
	DEVELOPER: MANGIONE ENTERPRISES OF TURF VALLEY LIMITED PARTNERSHIP	ENVIRONMENTAL CONCEPT PLAN TITLE SHEET						
	1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093	DATE:	APRIL, 2014		BEI PROJE	CT NO.	2601	1
	410-825-8400	SCALE:	AS SHOWN		SHEET	1	OF	3

ECP-14-053



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<pre>+ + + + + + + + + + + + + + + + + + +</pre>	N87°32'36''W 565'26'52''W N78°41'18''W 565'26'52'W 565'26'52'W S78°41'18''W 555'26'52'W S65'26'52'W 555'26'52'W S65'26'52'W 555'26'52'W S65'26'52'W 555'26'52'W 555'26'52'W 555'26'52'W 555'26'52'W 555'26'52'W 555'26'W 555'26'52'W 555'26'70'W 555'70'W 555'Y 555'
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$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $	SB402234"E S74°1206"E NBB°23'22'E S75'40'11"E S75'40'10"E S75'40'
$ \begin{array}{c} + & + & + & + & + & + & + & + & + & + &$	ARAGE CARAGE CAR
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	GREEN
GgB B GLENELG LOAM, GgC B GLENELG LOAM,	, 0 TO 3 PERCENT SLOPES 3 TO 8 PERCENT SLOPES 8 TO 15 PERCENT SLOPES TO 15 PERCENT SLOPES
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 4.23./4/ CHIEF, DEVELOPMENT ENGINEERING DIVISION ATE/ CHIEF, DIVISION OF LAND DEVELOPMENT CHIEF, DIVISION OF LAND DEVELOPMENT	$\frac{40}{100} = \frac{20}{100} + \frac{40}{100} = \frac{80}{100}$ 1 inch = 40 ft.



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